

## Guidelines for Replacing Science Electives with Advanced Computer Science Courses

The 2018 high school graduation requirements allow students pursuing the base diploma and the Advanced Career Endorsement to replace a science elective with a state-approved advanced computer science course, in which a list of eligible courses is below. The purpose of these courses is to develop students' abilities in science and engineering practices while promoting workforce readiness in the computer science field.

The use of an advanced computer science course does not replace the Biology science requirement, but counts as a science elective.

Students who wish to pursue the Advanced or Advanced Honors Endorsements are not able to replace a science elective with the advanced computer science course.

### State-Approved Advanced Computer Science Courses:

High School Courses	
Course Code	Course Title
10101	Networking Technologies
10152	Computer Programming I & II
10015	PLTW Computer Science Principles
10157	PLTW Computer Science A/AP Computer Science A
10016	PLTW Cybersecurity
10019	AP Computer Science Principles
Dual Credit Courses	
<a href="http://sdmylife.com/students/advanced-education-opportunities/">(http://sdmylife.com/students/advanced-education-opportunities/)</a>	
Postsecondary Institution	Course Number
Board of Regents	CIS 123 or higher CSC 150 or higher
Lake Area Technical Institute	CIS 120 or higher
Southeast Technical Institute	CIS 130 or higher
Western Dakota Technical Institute	CIS 216 or higher

Robotics (21009) will be reviewed on a case-by-case basis to determine eligibility as a “state-approved advanced computer science” in lieu of a science course elective. Submission for review requires a completed Robotics Application for Recognition as a State-Approved Advanced Computer Science, course syllabus, and any additional supporting materials, due December 1 for the following school year to Jennifer Fowler ([Jennifer.fowler@state.sd.us](mailto:Jennifer.fowler@state.sd.us)).